

OIL ANALYSIS REPORT

Area COLD MILL/CM-3STD-2N Central Hydraulics (Low Pressure) 1536-001-8020

Hydraulic System

CALUMET MAGIESOL 47 (1500 GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

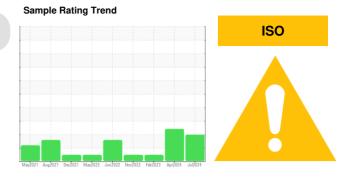
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



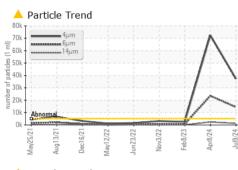
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004682	KFS0004401	KFS0002537
Sample Date		Client Info		09 Jul 2024	08 Apr 2024	08 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	11	4
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	1	0
Tin	ppm		>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		<1	<1	<1
Phosphorus	ppm	ASTM D5185m		30	24	25
1.103010103						
	ppm	ASTM D5185m		0	0	0
Zinc		ASTM D5185m ASTM D5185m		0 625	0 519	0 603
Zinc	ppm ppm		limit/base	625		
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m		625	519	603
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m method	>15	625 current	519 history1	603 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m	>15	625 current <1	519 history1 <1	603 history2 <1
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>15	625 current <1 <1 0	519 history1 <1 2	603 history2 <1 <1
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	625 current <1 <1 0	519 history1 <1 2 0	603 history2 <1 <1 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	>15 >20 limit/base >5000	625 current <1 <1 0 current	519 history1 <1 2 0 history1	603 history2 <1 <1 0 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	>15 >20 limit/base >5000	625 current <1 <1 <1 0 current ▲ 37334	519 history1 <1 2 0 history1 ▲ 72407	603 history2 <1 <1 <1 0 history2 2541
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160	625 current <1 <1 <1 0 current ▲ 37334 ▲ 14432	519 history1 <1 2 0 history1 ▲ 72407 ▲ 23535	603 history2 <1 <1 <1 0 history2 2541 803
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160	625 current <1 <1 <1 0 current ▲ 37334 ▲ 14432 ▲ 1291	519 history1 <1 2 0 history1 ▲ 72407 ▲ 23535 ▲ 2382	603 history2 <1 <1 0 history2 2541 803 71
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	625 current <1 <1 0 current ▲ 37334 ▲ 14432 ▲ 1291 ▲ 261	519 history1 <1 2 0 history1 ▲ 72407 ▲ 23535 ▲ 2382 ▲ 712	603 history2 <1 <1 0 history2 2541 803 71 19
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	625 current <1 <1 0 current ▲ 37334 ▲ 14432 ▲ 1291 ▲ 261 2	519 history1 <1 2 0 history1 ▲ 72407 ▲ 23535 ▲ 2382 ▲ 712 ▲ 33	603 history2 <1 <1 0 history2 2541 803 71 19 1
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm NESS	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10 >3	625 current <1 <1 0 current ▲ 37334 ▲ 14432 ▲ 1291 ▲ 261 2 0	519 history1 <1 2 0 history1 ▲ 72407 ▲ 23535 ▲ 2382 ▲ 712 ▲ 33 1	603 history2 <1 <1 0 history2 2541 803 71 19 1 9 1 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm ppm ppm NESS	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>15 >20 limit/base >5000 >1300 >160 >40 >10 >10 >3 >3 >19/17/14	625 current <1 <1 0 current ▲ 37334 ▲ 14432 ▲ 1291 ▲ 261 2 0 ▲ 22/21/17	519 history1 <1 2 0 history1 23535 2382 2382 2382 31 33 1 23/22/18	603 history2 <1 <1 0 bistory2 2541 803 71 19 1 9 1 0 19/17/13

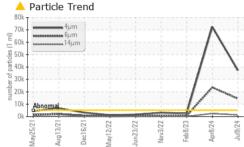
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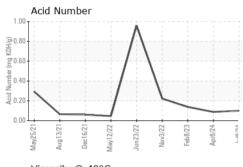
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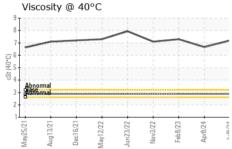


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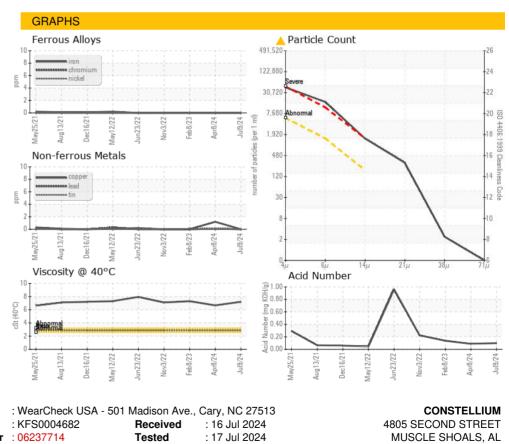


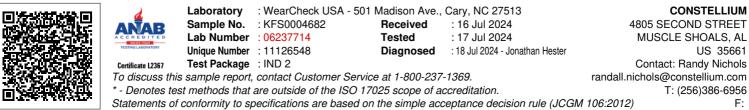






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	2.87	7.2	6.66	7.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
Bottom						





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T: (256)386-6956

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